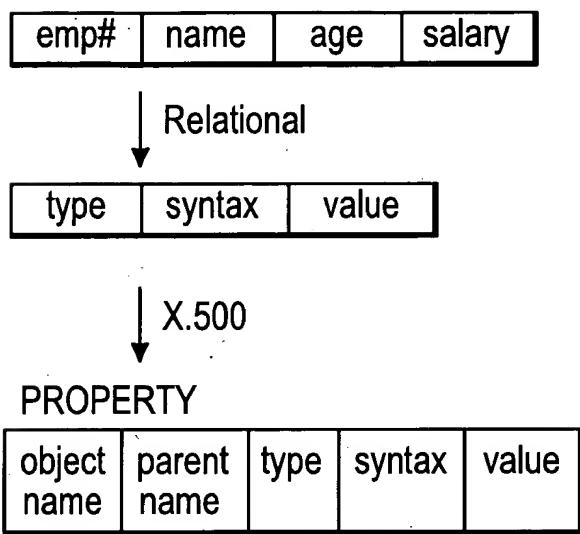


Principal Design

Representing X.500 in a RDBMS
 -data extensibility and complexity
 -object orientated and hierarchical



Conceptual Design

Implementing X.500 in a RDBMS
 -attributes and values
 -hierarchy and names
 -aliases
 -data tolerance

HIERARCHY

EID	Parent	Alias	Name
-----	--------	-------	------

Parent	Path
--------	------

Alias	A-EID
-------	-------

Name Norm	Name Raw
-----------	----------

OBJECT

EID	AID	VID	Disting	value
-----	-----	-----	---------	-------

Name Norm	Name Raw
-----------	----------

ATTRIBUTE

EID	Type	Syntax	Object ID
-----	------	--------	-----------

functional decomposition →

service decomposition →

FIG. 1a

Logical Design ↗

Performance Enhancements for RDBMS
 -indexing option
 -I/O considerations
 -management

DIT

EID	PARENT	ALIAS	RDN
-----	--------	-------	-----

TREE

EID	PATH
-----	------

ALIAS

EID	A-EID
-----	-------

NAME

EID	RAW
-----	-----

SEARCH

EID	AID	VID	DISTING	NORM
-----	-----	-----	---------	------

ENTRY

EID	AID	VID	RAW
-----	-----	-----	-----

SUBSEARCH

EID	AID	VID	CID	DISTING	NORM
-----	-----	-----	-----	---------	------

ATTR

EID	SYX	DESC	OBJECTED
-----	-----	------	----------

5

physical decomposition

Physical Design ↗

Realizing X.500 in a RDBMS
 -efficiency
 -portability
 -functional extensibility

DIT

EID	PARENT	RDNKEY	RDN	FLAGS
-----	--------	--------	-----	-------

TREE

EID	LEV1	LEV2	LEV3	LEV4	PATH	FLAGS
-----	------	------	------	------	------	-------

ALIAS

EID	A_EID	FLAGS
-----	-------	-------

NAME

EID	RAW	FLAGS
-----	-----	-------

INFO

MAXIED	FLAGS
--------	-------

SEARCH

EID	AID	VID	NORM KEY	NORM	FLAGS
-----	-----	-----	----------	------	-------

SUBSEARCH

EID	AID	VID	CID	CVID	NORM KEY	NORM	FLAGS
-----	-----	-----	-----	------	----------	------	-------

ENTRY

EID	AID	VID	RAW	FLAGS
-----	-----	-----	-----	-------

SENTRY

EID	AID	VID	VALUE	FLAGS
-----	-----	-----	-------	-------

BLOB

EID	AID	VID	VFRAG	RAW	FLAGS
-----	-----	-----	-------	-----	-------

ATTR

AID	SYX	DESC	OBJECT ID	FLAGS
-----	-----	------	-----------	-------

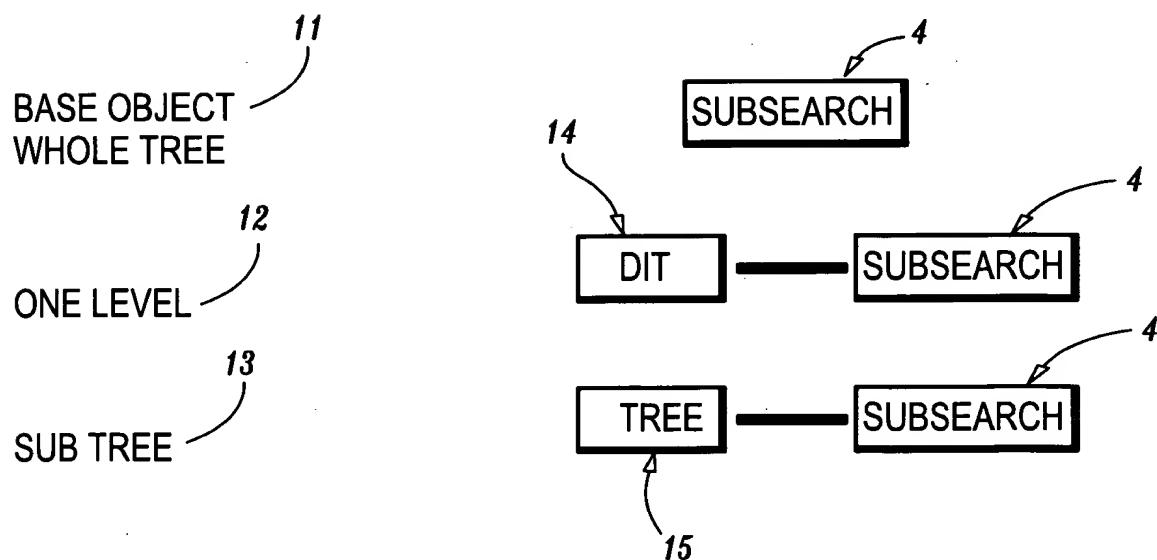
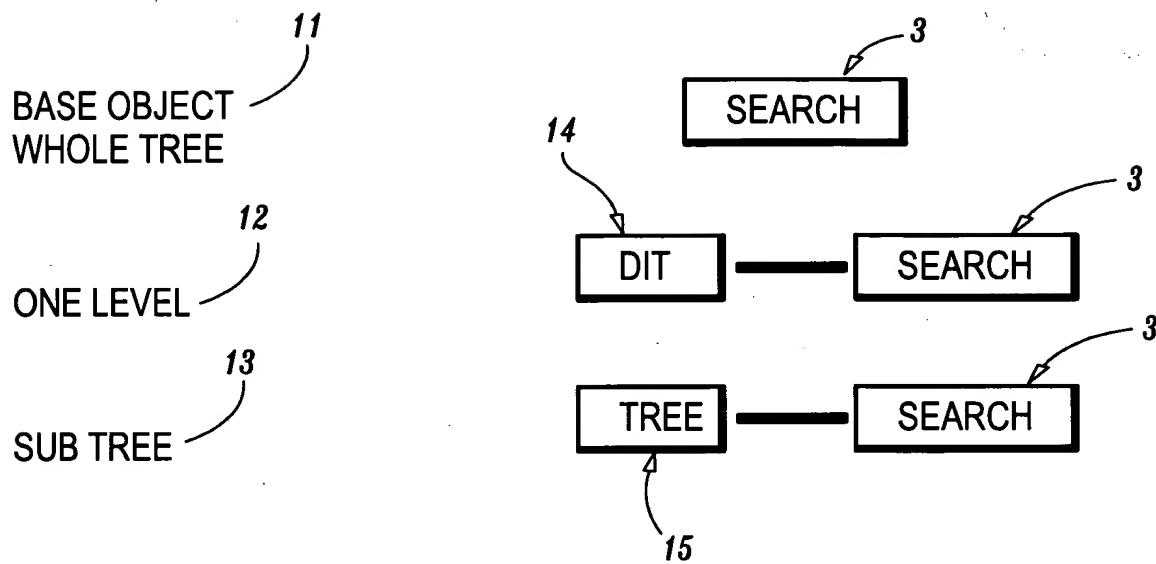
SUBATTR

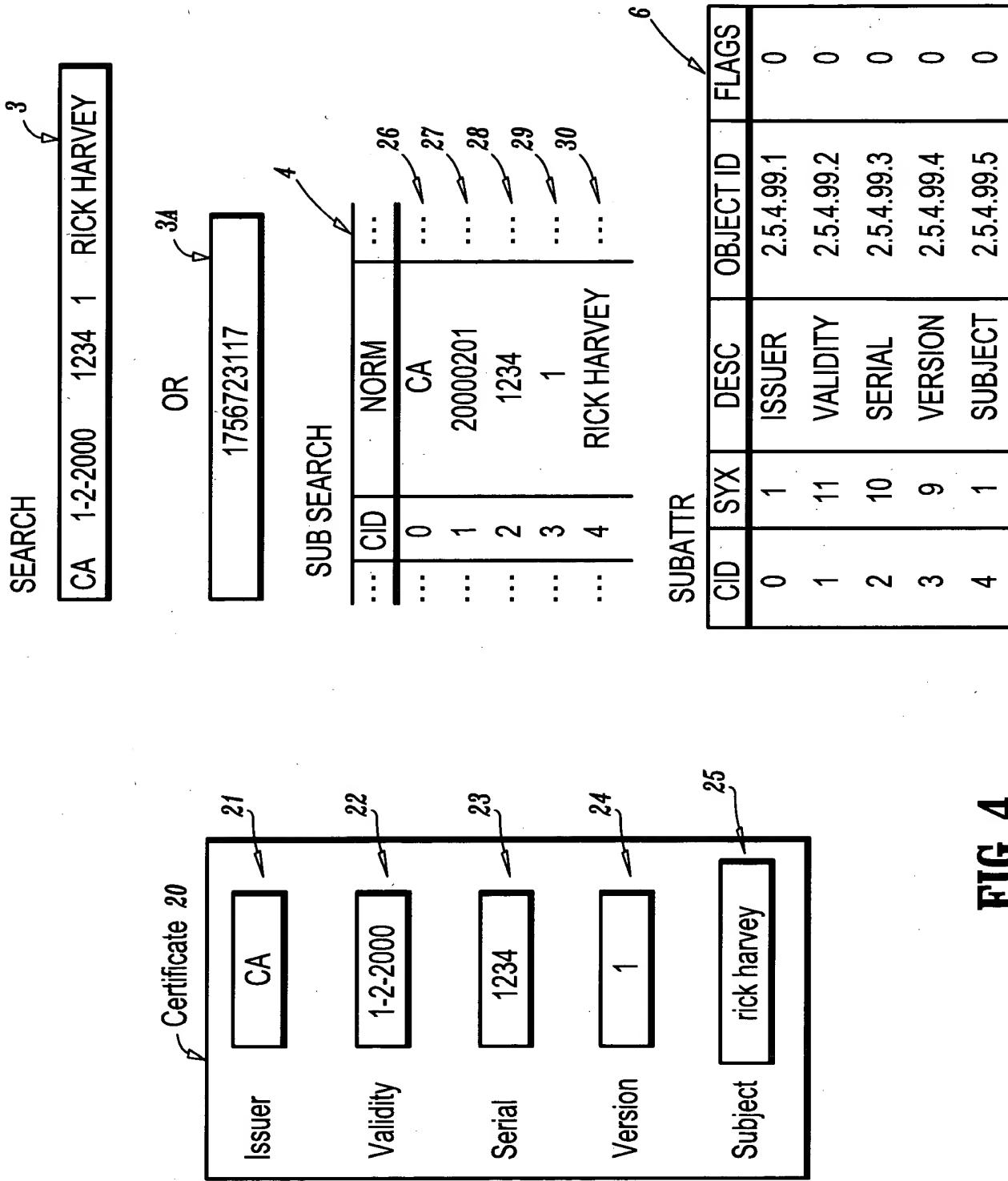
CID	SYX	DESC	OBJECT ID	FLAGS
-----	-----	------	-----------	-------

OCLASS

OCID	DESC	OBJE	MUST	MAY	SUPER	FLAGS
		CTID	LIST	LIST	LIST	

FIG. 1b





00000000000000000000000000000000

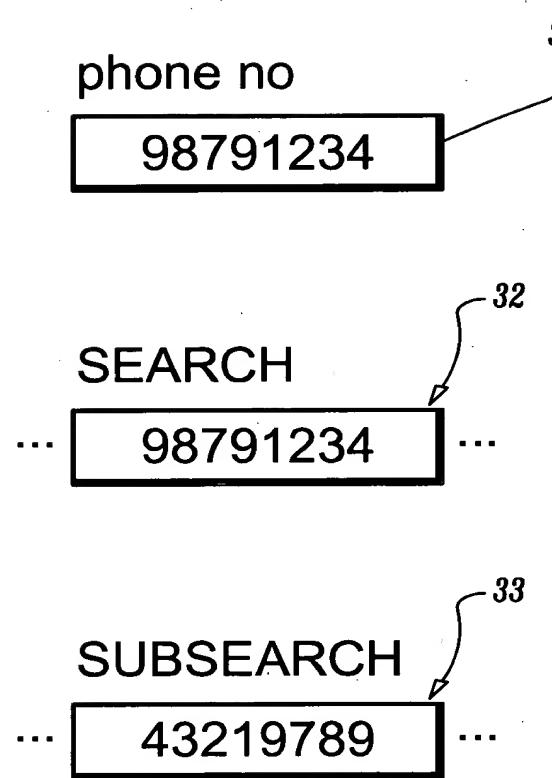


FIG. 5